

WHAT IS CLAIMED IS:

1. A data processing apparatus comprising:

a detector for detecting completion of preparations for outputting first data read from a data recording medium which stores said first data and second data corresponding to said first data and having a data amount smaller than that of said first data; and

a selector for selectively outputting said second data read from said data recording medium until the completion of said preparations for outputting said first data is detected, said selector further outputting selectively said first data once the completion of said preparations for outputting said first data is detected.

2. A data processing apparatus according to claim 1, further comprising:

a first controller for controlling reproduction of said first data; and

a second controller for controlling reproduction of said second data;

wherein said first controller controls the reproduction of said first data in response to the reproduction of said first data controlled by said second controller.

3. A data processing apparatus according to claim 1, wherein said first data and said second data corresponding to said first data are stored intermittently on said data recording medium.

4. A data processing apparatus according to claim 1, wherein said first data are video data and said second data are video data obtained by lowering resolution of the video data constituting said first data.

5. A data processing apparatus according to claim 4, further comprising a resizer for resizing the video data constituting said second data into the same size as that of said first data.

6. A data processing apparatus according to claim 1, further comprising a decoder for decoding said first data furnished as encoded data;

wherein said detector detects completion of preparations for outputting results of the decoding performed by said decoder.

7. A data processing apparatus according to claim 1, further comprising a reader for reading said first data and said second data from said data recording medium.

8. A data processing apparatus according to claim 1, further comprising a plurality of readers for reading said first data and said second data from said data

recording medium.

9. A data processing apparatus according to claim 7, wherein said first data are made up of a continuous collection of clips, said first data being reproduced on a clip by clip basis; said data processing apparatus further comprising:

a position calculator for calculating a current clip read ending position and a next clip read starting position, said current clip read ending position being the position in which to end reading of the currently reproduced clip from said data recording medium, said next clip read starting position being the position from which to start reading from said data recording medium the clip to be reproduced next following the current clip; and

wherein said reader stops reading of the current clip from said data recording medium in said current clip read ending position and starts the reading of the next clip from said next clip read starting position.

10. A data processing apparatus according to claim 9, wherein said position calculator includes:

a duration calculator for calculating a current clip remaining reproduction duration, a next clip reproduction preparation duration, and a current clip

remaining read duration, said current clip remaining reproduction duration being a duration period during which the reproduction of what remains of said current clip lasts, said next clip reproduction preparation duration being a duration period required to complete preparations for reproducing said next clip, said current clip remaining read duration being a duration period required to read what remains of said current clip from said data recording medium;

an ending position calculator for calculating said current clip read ending position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration; and

a starting position calculator for calculating said next clip read starting position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration.

11. A data processing method comprising the steps of:

detecting completion of preparations for outputting first data read from a data recording medium which stores said first data and second data corresponding to said

first data and having a data amount smaller than that of said first data; and

outputting selectively said second data read from said data recording medium until the completion of said preparations for outputting said first data is detected, said outputting step further outputting selectively said first data once the completion of said preparations for outputting said first data is detected.

12. A data processing method according to claim 11, further comprising the steps of:

firstly controlling reproduction of said first data; and

secondly controlling reproduction of said second data;

wherein said first controlling step controls the reproduction of said first data in response to the reproduction of said first data controlled in said second controlling step.

13. A data processing method according to claim 11, wherein said first data and said second data corresponding to said first data are stored intermittently on said data recording medium.

14. A data processing method according to claim 11, wherein said first data are video data and said second

data are video data obtained by lowering resolution of the video data constituting said first data.

15. A data processing method according to claim 14, further comprising the step of resizing the video data constituting said second data into the same size as that of said first data.

16. A data processing method according to claim 11, further comprising the step of decoding said first data furnished as encoded data;

wherein said detecting step detects completion of preparations for outputting results of the decoding performed in said decoding step.

17. A data processing method according to claim 11, further comprising the step of reading said first data and said second data from said data recording medium.

18. A data processing method according to claim 11, further comprising a plurality of steps of reading said first data and said second data from said data recording medium.

19. A data processing method according to claim 17, wherein said first data are made up of a continuous collection of clips, said first data being reproduced on a clip by clip basis, said data processing method further comprising the steps of:

calculating a current clip read ending position and a next clip read starting position, said current clip read ending position being the position in which to end reading of the currently reproduced clip from said data recording medium, said next clip read starting position being the position from which to start reading from said data recording medium the clip to be reproduced next following the current clip; and

wherein said reader stops reading of the current clip from said data recording medium in said current clip read ending position and starts the reading of the next clip from said next clip read starting position.

20. A data processing method according to claim 19, further comprising the steps of:

calculating a current clip remaining reproduction duration, a next clip reproduction preparation duration, and a current clip remaining read duration, said current clip remaining reproduction duration being a duration period during which the reproduction of what remains of said current clip lasts, said next clip reproduction preparation duration being a duration period required to complete preparations for reproducing said next clip, said current clip remaining read duration being a duration period required to read what remains of said

current clip from said data recording medium;

calculating said current clip read ending position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration; and

calculating said next clip read starting position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration.

21. A program for causing a computer to execute a data processing method, said data processing method comprising the steps of:

detecting completion of preparations for outputting first data read from a data recording medium which stores said first data and second data corresponding to said first data and having a data amount smaller than that of said first data; and

outputting selectively said second data read from said data recording medium until the completion of said preparations for outputting said first data is detected, said outputting step further outputting selectively said first data once the completion of said preparations for outputting said first data is detected.



22. A program according to claim 21, wherein said data processing method further comprises the steps of:

firstly controlling reproduction of said first data; and

secondly controlling reproduction of said second data;

wherein said first controlling step controls the reproduction of said first data in response to the reproduction of said first data controlled in said second controlling step.

23. A program according to claim 21, wherein said first data and said second data corresponding to said first data are stored intermittently on said data recording medium.

24. A program according to claim 21, wherein said first data are video data and said second data are video data obtained by lowering resolution of the video data constituting said first data.

25. A program according to claim 24, wherein said data processing method further comprises the step of resizing the video data constituting said second data into the same size as that of said first data.

26. A program according to claim 21, wherein said data processing method further comprises the step of

decoding said first data furnished as encoded data; and

wherein said detecting step detects completion of preparations for outputting results of the decoding performed in said decoding step.

27. A program according to claim 21, wherein said data processing method further comprises the step of reading said first data and said second data from said data recording medium.

28. A program according to claim 21, wherein said data processing method further comprises a plurality of steps of reading said first data and said second data from said data recording medium.

29. A program according to claim 27, wherein said first data are made up of a continuous collection of clips, said first data being reproduced on a clip by clip basis; and.

wherein said data processing method further comprises the steps of:

calculating a current clip read ending position and a next clip read starting position, said current clip read ending position being the position in which to end reading of the currently reproduced clip from said data recording medium, said next clip read starting position being the position from which to start reading from said

data recording medium the clip to be reproduced next following the current clip; and

wherein said reader stops reading of the current clip from said data recording medium in said current clip read ending position and starts the reading of the next clip from said next clip read starting position.

30. A program according to claim 29, wherein said data processing method further comprises the steps of:

calculating a current clip remaining reproduction duration, a next clip reproduction preparation duration, and a current clip remaining read duration, said current clip remaining reproduction duration being a duration period during which the reproduction of what remains of said current clip lasts, said next clip reproduction preparation duration being a duration period required to complete preparations for reproducing said next clip, said current clip remaining read duration being a duration period required to read what remains of said current clip from said data recording medium;

calculating said current clip read ending position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration; and

calculating said next clip read starting position  
based on said current clip remaining reproduction  
duration, said next clip reproduction preparation  
duration, and said current clip remaining read duration.